APPENDIX A

SOFTWARE SUMMARY

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This appendix contains information normally contained in Section 3, Software Summary, Software Users Manual (SUM) MIL-STD-498, DI-IPSC-81443.

A.1 Software Application

This application is the result of lessons learned during operation Desert Shield/Storm and provides a Supported Commander-in-Chief (CINC), USTC, and their components the capability to identify requirements for validation and scheduling of movement assets. This capability includes editing source requirements, monitoring changes, passing movement priorities to USTC, and reporting scheduling status contained in the JOPES Core database. This interface permits the Supported CINC to invalidate previously validated movement requirements and provides the mechanism for extracting data from the JOPES Core database and passing those requirements to the TCC scheduling systems. Manual overrides for the flag values are provided to ensure that time-critical actions can be accomplished within the established business rules.

A.2 General Information

Detailed technical information about TCC ESI is contained in Release Notes associated with each version. Release Notes provide the most current information about TCC ESI. They may be reviewed by the System Administrator using the SAInstaller software installation. Release Notes include:

- Summarized information about TCC ESI functionality.
- Information about dropping or adding users.
- Changes included within the applicable release.
- Instructions for installing and deinstalling segments. TCC ESI segments are installed on the client (TCCESI) and the database server (ESISRV) by the system administrator.

A.3 Software Inventory

TCC ESI requires no additional software that is not part of the GCCS COE. The following COE components are the minimum used by the application:

- MOTIF Version 1.2.2
- Solaris 2.3 or 2.4
- X11R5 Libraries, and
- ORACLE Version 7.x

A.4 Software Environment

TCC ESI is an integral part of JOPES operating in the client-server environment provided by the GCCS COE.

Although TCC ESI will execute on a Sun Server, and will display on an X-Terminal capable of producing a 1024x768 display, the following equipment is recommended for running TCC ESI in the GCCS COE environment:

- A Sun SPARC server configured per the GCCS COE for the size of the site where the application will execute;
- A Sun workstation with 24 MB RAM;
- 10 MB disk storage for LOGSAFE application files; and
- 400 MB disk storage for each ORACLE database server.

The user is not expected to setup or install the TCC ESI software. This function will be performed by a site's System Administrator (SA) or by the GCCS installation team.

A.5 Software Organization and Overview of Operation

Table A.5-1, Main Menu Functionality, describes the functions performed under TCC ESI's menu structure.

Table A.5-1. Main Menu Functionality

Menu Heading	Menu and Sub-Menu Functions Performed
Supported CINC Validation	The requirements are validated against a set of edits. If the requirements pass the pre-edit test, the SSF is set to a "V." If the requirements fail the pre-edit test, the PIF is set to an "E" for error.
Supported CINC Status Flag Override	The requirements or specified FMIDs that had previously been validated, can be unvalidated.
TCC Problem Indicator Flag Override	An AMC user can remove the PIF or set the PIF to "P" for specific requirements or specified FMIDs. An MSC user can set the PIF to "M" for specific requirements or specified FMIDs.
USTC Status/Problem Flags Override	SSFs and PIFs can be modified for an OPLAN, an FMID, or for specific ULNs.
USTC Requirements Pull	A report can be provided when a mode and source are provided. The requirements can be pulled as per requested mode and source if the scheduling status is a "V" or a "T." The pulled ULNs are placed in a TPFDD and passed to the TCC scheduling system.

Menu Heading	Menu and Sub-Menu Functions Performed
Reports and Utilities	Reports can be generated that provide a list of carriers in an OPLAN or a list of carriers in the database. This utility can also delete carriers in an OPLAN. The carriers can be selected by allocated, unallocated, manifested, unmanifested, or all and the source selected as AMC, Military Traffic Management Command (MTMC), MSC, organic, or all. The selection can be further qualified by date range for relative date or a Greenwich Mean Time (Zulu) date and/or by carrier name range.

Detailed procedures for using TCC ESI are contained in Section 5.0, PROCESSING REFERENCE GUIDE.

A.6 Contingencies and Alternate States and Modes of Operation

Tailored out of this document.

A.7 Security and Privacy

GCCS operates at a SECRET system high level of security. This means that all output generated by the system is deemed to be classified unless a definitive decision to downgrade the output has been made. There are no safeguards in TCC ESI that will preclude a user from entering data of a higher classification, but doing so would be a violation of security procedures.

A.8 Printing from TCC ESI

When TCC ESI is first started, the Printer Selection Box is displayed. To continue processing, the user must select a printer from the list shown in the box. The Printer Selection Box is shown in Figure A.8-1.

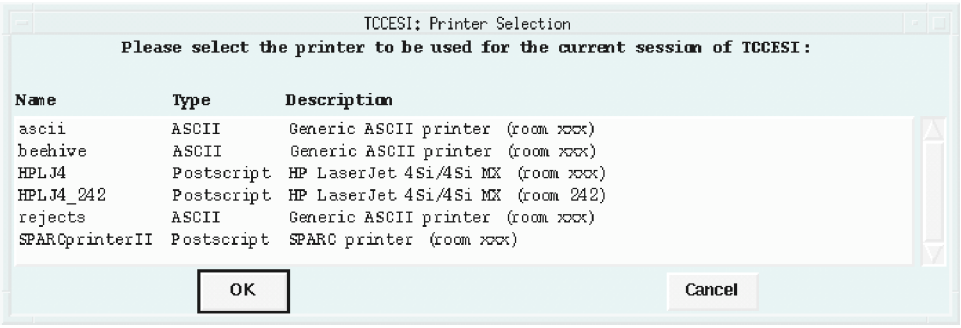

Figure A.8-1. Printer Selection Box

All printing in TCC ESI is done in the background. Temporary report data files are created as a result of a report request. These are processed using a background activity that creates formatted files capable of being printed. A script is then called to invoke the print function, sending the output to the selected printer.

If the user is executing TCC ESI under the GCCS Desktop, the printer to which the report should be printed

can be selected using the File menu on the Desktop. If the user is executing TCC ESI remotely or on a Personal Computer (PC) using X-Windows emulation software, a small pop-up window will be displayed containing the list of available printers. The user should highlight the desired printer and then press the **{OK}** button on the pop-up window. NOTE: This pop-up window will only be displayed the first time the user prints a report during a session of TCC ESI. The selected printer will then be used for all further reports printed during the current TCC ESI session.

A.9 Information, Warning, and Error Messages

If the user attempting to run TCC ESI does not have the proper database privileges, TCC ESI provides the user a red, Fatal message pop-up window. This prevents the use of TCC ESI except by those users granted specific database privileges. An example of the window is shown in Figure A.9-1, Invalid Role Pop-Up Message.

A.10 Troubleshooting TCC ESI Output

In some cases, the user may receive no warning or error advisory messages but the output is not what was anticipated.

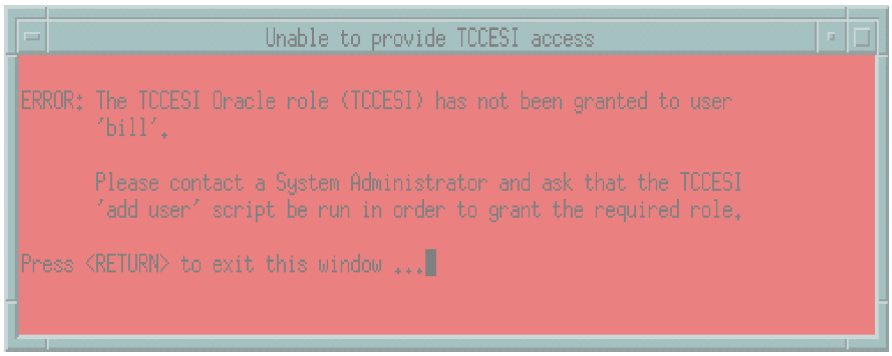

Figure A.9-1. Invalid Role Pop-Up Message

This table describes the more common situations encountered during TCC ESI operation and some suggested items to check.

Table A.10-1. Troubleshooting TCC ESI Output

Condition	Possible Causes	Discussion; Places to Check
No requirements were validated	Requirements in the OPLAN have either been already Validated or failed Transportation Pre-edit checks.	Although TCC ESI checks all the requirements for a given OPLAN even though only a single Force Module was selected, it does not generate transactions to re-validate requirements that have already been validated.. Thus, Requirements Development and Analysis (RDA) should be used to confirm that the Schedule Status Flag (SSF) of each requirement is blank. Since previously validated requirements are compared to determine if any transportation changes were made, it is possible for previously validated requirements to fail edit checks. Thus, the Transportation Pre-edit Report should be examined for error messages.
	User database privileges are incorrect or have been changed..	For proper operation of TCC ESI, each user must have been granted the TCCESI database "role." You will need to check with your site Data base Administrator (DBA) to determine what "roles" you have been granted.
	User permissions are incorrect.	To view and update the contents of OPLAN requirements (e.g., ULNs), each user must have the proper database table permissions. This is done as a result of running the PostInstall script during TCC ESI software installation. You will need to check with your site DBA to determine what database permissions you have. You will also need to check with your site System Administrator (SA) to have this script run.
Validation attempts produce error messages	Not within the proper range of OPLANs	The validation permissions file (valperms.dat) contains 2-character User ID prefixes assigning a range of OPLANS to each prefix. If you attempt to access an OPLAN outside of the range for your User ID, then you will get an error message. You will also need to check with your site SA to have this file changed.
	Validation permission file is missing or corrupt	If the validation permissions file (valperms.dat) is erased or corrupted, then access to OPLANs may be prevented as a result. You will also need to check with your site SA to have this file replaced.

A.11 Trouble Reporting

Whenever possible, users should first attempt to resolve their problems through their local site system administrator, database manager, or functional manager. They may be aware of fixes which already exist, or are scheduled for fielding in the near future.

If a user encounters a TCC ESI problem that cannot be solved at the site then the GMC-Pentagon help desk should be contacted. The GMC-Pentagon Help Desk may be contacted at
Defense Switching Network (DSN):

DSN Voice	225-0671	Comm Voice	(703)695-0671
DSN Fax	224-9082	Comm Fax	(703)614-9082
DSN Fax (Secret)	225-0025	Comm Fax (Secret)	(703)695-0025

Or:

Home Page	http:/nmcc20a.nmcc.smil.mil
email (Internet)	gccshelp@ncr.disa.mil
email (SIPRNet)	dj9help1@nmcc20a.nmcc.smil.mil
GCCS News Group	nmcc.local.help